

GP 3661

HDP/SB/21 based on PTO/SB/21 (08-00)

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/965,691	
	Filing Date	September 27, 2001	
	First Named Inventor	Ibrahim Mostafa Kamel et al.	
	Group Art Unit	Unknown	
	Examiner Name	Unknown	
Total Number of Pages in This Submission		Attorney Docket Number	9432-000136

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO 1449 and copies of the references cited therein (14 publications), and return receipt post card.
Remarks		The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.

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GROUP 3600

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name	Gregory A. Stobbs
		Reg. No.	28,764
Signature	<i>Greg Stobbs</i>		
Date	<i>Apr 23, 2002</i>		

CERTIFICATE OF MAILING/TRANSMISSION			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.			
Typed or printed name	Gregory A. Stobbs		
Signature	<i>Greg Stobbs</i>	Date	<i>Apr 23, 2002</i>

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/965,691

Filing Date: September 27, 2001

Applicant: Ibrahim Mostafa Kamel et al.

Title: DYNAMIC MULTICAST GROUPING FOR
VEHICLES AND OTHER MOBILE OBJECTS

Attorney Docket: 9432-000136



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Hon. Commissioner of Patents and Trademarks
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GROUP 3600

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. X Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed

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on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ☒ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ☐ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ☐ See the attached foreign patent office communication from a counterpart foreign application:
2. ☐ English translations are provided for:
3. ☐ Other:

C. ☐ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ☐ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.

Filing Date

Art Unit

V. THIS IDS IS BEING FILED UNDER

A. ☒ 37 C.F.R. § 1.97(b): (check only one box)

1. ☐ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ☒ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. ☐ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ☐ 37 C.F.R. § 1.97(c): (check only one box)

- before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ☐ See the certification below. No fee is required.

C. ☐ 37 C.F.R. § 1.97(d):

- after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ☐ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. ☐ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B. ☐ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37

C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

 each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

A. A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

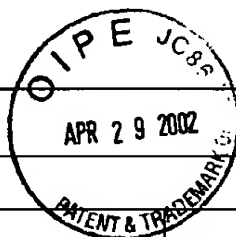
Respectfully submitted,

Dated: Apr 23, 2002

By: Greg Stobbs
Gregory A. Stobbs
Reg. No. 28,764

HARNESS, DICKEY & PIERCE, P.L.C.
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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 1 of 2	ATTORNEY DOCKET NO.	SERIAL NO.
	9432-000136	09/965,691
	APPLICANT	
	Ibrahim Mostafa Kamel et al.	
	FILING DATE	GROUP
	September 27, 2001	Unknown



U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.						

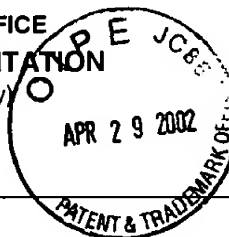
FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation	
						Yes	No
1.							

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.		Abou-Haidar, Roula; Masking Internet Limitations In Internet Based Crowded Virtual Environments: A study of Space Structuring Techniques; Computer Science Department 1999-2000; pp. 1-80; University College, London.
2.		Barrus, John W.; Waters, Richard C.; Anderson, David B.; Locales and Beacons: Efficient and Precise Support For Large Multi-User Virtual Environments; August, 1996; pp. 1-15; A Mitsubishi Electric Research Laboratory.
3.		Blazevic, Ljubica; LeBoudec, Jean-Yves; Distributed Core Multicast (DCM): a multicast routing protocol for many groups with few receivers; pp. 1-16; Institute for Computer Communications and Applications (ICA) Swiss Federal Institute of Technology, Lausanne.
4.		Boivie, Rick; Feldman, Nancy; Small Group Multicast; July, 2000; pp. 1-17; IBM Watson Research Center.
5.		Gautier, Laurent; and Diot, Christophe; Design and Evaluation of MiMaze, a Multi-Player Game on the Internet; pp. 1-4; INRIA Sophia Antipolis.
6.		Helder, D.; Jamin, S.; IPv4 Option for Somecast; July 2000; pp. 1-13, University of Michigan.

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 2 of 2	ATTORNEY DOCKET NO.	SERIAL NO.
	9432-000136	09/965,691
	APPLICANT	
	Ibrahim Mostafa Kamel et al.	
	FILING DATE	GROUP
	September 27, 2001	Unknown



OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
7.		Lety, Emmanuel; Turletti, Thierry; Baccelli, Francois; Cell-based Multicast Grouping in Large-Scale Virtual Environments; July 1999; No. 3729; pp. 1-27; Institut National De Recherche En Informatique Et En Automatique.
8.		Ooms, D.; Livens, W.; Connectionless Multicast; October 1999; pp. 1-18; Alcatel.
9.		Rak, Steven J.; Van Hook, Daniel J.; Evaluation of Grid-Based Relevance Filtering for Multicast Group Assignment; pp. 1-9; MIT Lincoln Laboratory, 244 Wood St., Lexington, MA 02173.
10.		Van Hook, Daniel J.; Rak, Steven J.; and Calvin, James O.; Approaches to Relevance Filtering; September 26-30, 1994; pp. 1-3; MIT Lincoln Laboratory.
11.		Waters, R.; Anderson, D.; Barrus, J.; Brogan, D.; Casey, M.; McKeown, S.; Nitta, T.; Sterns I.; & Yerazunis, W., Diamond Park and Spline: A Social Virtual Realty System with 3D Animation, Spoke Interaction, and Runtime Modifiability; November, 1996; pp. 1-24; A Mitsubishi Electric Research Laboratory.
12.		Wong, Tina; Katz, Randy; McCanne, Steven; An Evaluation of Preference Clustering in Large-Scale Multicast Applications; pp. 1-10; Department of Electrical Engineering and Computer Science; University of California.
13.		Yuji, Imai; Multiple Destination option on IPv6 (MDO6); September, 2000; pp. 1-28; Fujitsu Lab.
14.		Zou, Li; Ammar, Mostafa H.; Diot, Christophe; An Evaluation of Grouping Techniques for State Dissemination in Networked Multi-User Gaems; pp. 1-8; College of Computing, Georgia Institute of Technology, Atlanta, GA 30332 and Sprint ATL, 1 Adrian Court, Burlingame, CA 94010.

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.